

CLAIMS

1. A card device comprising a card casing housing a circuit substrate; and an antenna which is disposed rotatably on an exterior of the card casing and is electrically connected to an electric circuit provided on the circuit substrate, wherein a side wall of the card casing is provided with a through hole through which an antenna rotary shaft extends, the antenna rotary shaft being disposed at a base end of the antenna and being composed of a conductive material, the antenna rotary shaft extending from the exterior of the card casing towards the interior of the card casing through the through hole, the antenna rotary shaft being disposed along a substrate surface of the circuit substrate in the card casing while being separated from the substrate surface, wherein a section of the circuit substrate that is opposed to the antenna rotary shaft has a feeding terminal fixed thereto, the feeding terminal being electrically connected to the electric circuit of the circuit substrate, the feeding terminal having a pair of antenna-rotary-shaft elastically-pressing portions that sandwich the antenna rotary shaft from opposite sides with elastic forces, the pair of antenna-rotary-shaft elastically-pressing portions being in pressure-contact with the antenna rotary shaft by being in surface-contact with a periphery surface of the antenna rotary shaft, the antenna

rotary shaft being electrically connected to the electric circuit of the circuit substrate via the antenna-rotary-shaft elastically-pressing portions.

2. The card device according to Claim 1, wherein the feeding terminal is fixed to the circuit substrate with a conductive bonding material disposed therebetween.

3. The card device according to Claim 2, wherein an inner surface of the card casing is provided with an antenna-rotary-shaft supporting portion that rotatably supports the antenna rotary shaft extending into the card casing through the through hole in a manner such that the antenna rotary shaft is elevated from the circuit substrate.

4. The card device according to Claim 3, wherein the feeding terminal has an insertion inlet disposed between the pair of antenna-rotary-shaft elastically-pressing portions and located at an upper portion of the feeding terminal, wherein the card casing includes a combination of a front cover and a back cover, the front cover being disposed proximate a front surface of the circuit substrate, the back cover being disposed proximate a back surface of the circuit substrate, wherein the antenna-rotary-shaft supporting portion is disposed in an inner surface of the front cover of the card casing, wherein the antenna rotary shaft is rotatably supported by the front cover, wherein when the front cover is being placed over the circuit substrate on

the back cover in order to combine the front cover and the back cover together, the antenna rotary shaft is inserted between the pair of antenna-rotary-shaft elastically-pressing portions of the feeding terminal, wherein when the antenna rotary shaft is completely inserted between the pair of antenna-rotary-shaft elastically-pressing portions, the antenna-rotary-shaft elastically-pressing portions elastically press against the antenna rotary shaft so as to sandwich the antenna rotary shaft, whereby the antenna rotary shaft is electrically connected to the electric circuit of the circuit substrate.

5. The card device according to Claim 1, wherein the card casing includes a combination of a front cover and a back cover, the front cover being disposed proximate a front surface of the circuit substrate, the back cover being disposed proximate a back surface of the circuit substrate, wherein a first one of the front cover and the back cover is provided with an extended wall segment extending along an outer surface of a side wall of a second one of the front cover and the back cover, the extended wall segment having a hook portion on a tip thereof, wherein the second cover is provided with a hook-receiving portion onto which the hook portion is securely hooked, and wherein the front cover and the back cover are combined with each other by hooking the hook portion of the first cover onto the hook-receiving

- 28 -

portion of the second cover.